

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/978,454	10/15/2001	Mark D. Erion	030727.0027.CON1	5123
36183	7590 04/14/2004		EXAMINER	
PAUL, HASTINGS, JANOFSKY & WALKER LLP			JONES, DAMERON LEVEST	
P.O. BOX 919092 SAN DIEGO, CA 92191-9092			ART UNIT	PAPER NUMBER
			1616	15
			DATE MAILED: 04/14/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

t ·					
	Application No.	Applicant(s)			
	09/978,454	ERION ET AL.			
Office Action Summary	Examiner	Art Unit			
	D. L. Jones	1616			
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet	vith the correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a replif NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailine earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a ply within the statutory minimum of the will apply and will expire SIX (6) MC e, cause the application to become a	a reply be timely filed irty (30) days will be considered timely. DNTHS from the mailing date of this communication. ABANDONED (35 U.S.C. § 133).			
Status					
1)⊠ Responsive to communication(s) filed on 02 F	February 2004.				
3) Since this application is in condition for allowa	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4) ⊠ Claim(s) <u>168-185</u> is/are pending in the application 4a) Of the above claim(s) is/are withdrates 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) <u>168-185</u> is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/or	wn from consideration.				
Application Papers					
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) acc Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the E	cepted or b) objected to drawing(s) be held in abeya ction is required if the drawin	ance. See 37 CFR 1.85(a). g(s) is objected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 16.	Paper No	Summary (PTO-413) (s)/Mail Date Informal Patent Application (PTO-152)			

ACKNOWLEDMENTS

1. The Examiner acknowledges receipt of Paper No. 14, filed 2/2/04, wherein an acceptable RCE (request for continued examination) was filed and an supplemental IDS (information disclosure statement) were submitted.

Note: Claims 168-185 are pending.

COMMENTS/NOTES

2. Review of the application has deemed the following new grounds of rejection necessary in order to clarify the instant invention.

112 FIRST PARAGRAPH REJECTIONS

3. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

4. Claims 168-185 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

The claims fail to comply with the written description requirement because of the variable M definition. In particular, the phrase 'M is selected form the group that, attached to PO_3^{2-} , $P_2O_6^{3-}$, or $P_3O_9^{4-}$, is biologically active in vivo and that is attached to

سر.

Application/Control Number: 09/978,454

Art Unit: 1616

the phosphorus atom in Formula I via a carbon, oxygen, or nitrogen atom, with the proviso that M-PO₃²⁻ is not an FBPase inhibitor' (see independent claims 168 and 180-185) does not disclose what biologically active compounds the invention encompasses. There is/are no structure(s) to determine what agents Applicant are claiming to be compatible with the instant invention. The specification discloses limited exemplification of specific M species (i.e., M is the compound of formulae II (page 59), III (page 60), and IV (page 61), or a nucleoside (page 74, lines 13-25)) that are encompassed by the instant invention while the claims are directed to any and all possible biologically active agents. In addition, the specification and claims does not distinguish what are the FBPase inhibitors. Thus, since the specification and claims do not contain a clear and concise description, a written description rejection is proper.

112 SECOND PARAGRAPH REJECTION

- 5. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 6. Claims 168-185 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

<u>Claims 168-185</u>: The claims as written are ambiguous because it is unclear what is encompassed by Applicant's variable M. Specifically, the phrase 'M is selected form the group that, attached to PO_3^{2-} , $P_2O_6^{3-}$, or $P_3O_9^{4-}$, is biologically active in vivo and that is attached to the phosphorus atom in Formula I via a carbon, oxygen, or nitrogen atom,

Application/Control Number: 09/978,454

Art Unit: 1616

with the proviso that M-PO₃²⁻ is not an FBPase inhibitor' (see independent claims 168 and 180-185) is confusing. In particular, it is unclear what biologically active compound(s) Applicant is claiming that are compatible with the instant invention. Is Applicant claiming all possible biological agents? What does Applicant mean by the phrase 'with the proviso that 'M-PO₃²⁻ is not an FBPase inhibitor'? What limitations/conditions has Applicant set forth to distinguish whether M-PO₃²⁻ is not an FBPase inhibitor or not? Hence, it is unclear which compound(s) Applicant is excluding from the claim. Applicant is respectfully requested to the clarify the claims in order that one may readily ascertain what is being claimed.

Claims 169-173, 177, and 179 recite the limitation "wherein MH is" in line 1.

There is insufficient antecedent basis for this limitation in the claim.

Did Applicant intend to write "wherein M is" instead of "wherein MH is"?

ADDITIONAL COMMENTS/NOTES

7. It should be noted that no prior art has been cited against Applicant's claims. However, Applicant must address and overcome the 112 rejections above. In particular, the claims are distinguished over the prior art of record because the prior art neither anticipates nor renders obvious a composition comprising the phosphorus cyclic structure wherein the biologically active agent is that of Formula II-IV or a nucleoside.

Application/Control Number: 09/978,454

Art Unit: 1616

Page 5

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to D. L. Jones whose telephone number is (571) 272-0617. The examiner can normally be reached on Mon.-Fri., 6:45 a.m. - 3:15 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thurman Page can be reached on (571) 272-0602. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Primary Examiner
Art Unit 1616

April 13, 2004